DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY Tas Qui Base from U.S. Geological Survey, 1952 Geology mapped in 1960-1973

CORRELATION OF MAP UNITS

C	DIRECTION OF PIAT	UNIIS
Qal Qt	Holocene Pleistocene	} QUATERNARY
Tu -5- 6 -4- Tgb- -3- Tu ₅ -2- -1-	Eocene	TERTIARY
Tgt		

DESCRIPTION OF MAP UNITS

Qal ALLUVIUM (HOLOCENE) -- Silt, sand and gravel of flood plains and alluvial fans in larger valleys. Flood-plain deposits are mostly gray, buff, and brown silt and sand. Alluvial fan deposits consist of angular boulders and pebbles of sandstone and marlstone mixed with silt and sand, and are derived from nearby hilly terrain and deposited by torrential floods. Alluvial fans are generally outlined by surface contours that are convex around the mouths of tributary gulches. Thin alluvial deposits in some upland gulches are not shown. Thickness 0-50 ft (0-15 m) TERRACE DEPOSITS (PLEISTOCENE) -- Remnants of stream

deposits of sand and gravel on terraces 50-100 ft (15-31 m) above present level of Piceance Creek. The deposits contain some locally derived angular sandstone and marlstone boulders; they also contain numerous smoothly rounded pebbles and boulders of chert, limestone, quartzite, arkose, and sandstone derived from Mesozoic and Paleozoic rock east of the map area. Thickness 0-25 ft (0-7.6 m)UINTA FORMATION (EOCENE)

Unit 6--Brown, gray and tan sandstone and gray siltstone. Massive brown sandstone with gray and tan siltstone and thin gray marlstone beds in lower part. Unit locally contains petrified wood. Numerous plant leaves and a few poorly preserved unidentified large mammal bones observed near the mouth of West Fork of Stewart Gulch. Thickness 270 ft (82 m). Bed 5 in the Scandard Draw area is silty marlstone with brown sandstone zone in the middle that correlates with Coughs Creek Tongue of Green River Formation to the south. Only top of bed 5 is shown. Bed 4 is a gray siltstone shown in a small area west of Willow Creek

Unit 5--Buff to brown weathering sandstone with minor lenticular marlstone and gray siltstone beds. Local maristone beds 1, 2, and 3 each as much as 20 ft (6 m) thick were mapped to show stratigraphic and structural relationships. Thickness 400-500 ft (122-152 m)

MISCELLANEOUS FIELD STUDIES MAP MF-756 JESSUP GULCH QUAD., COLORADO

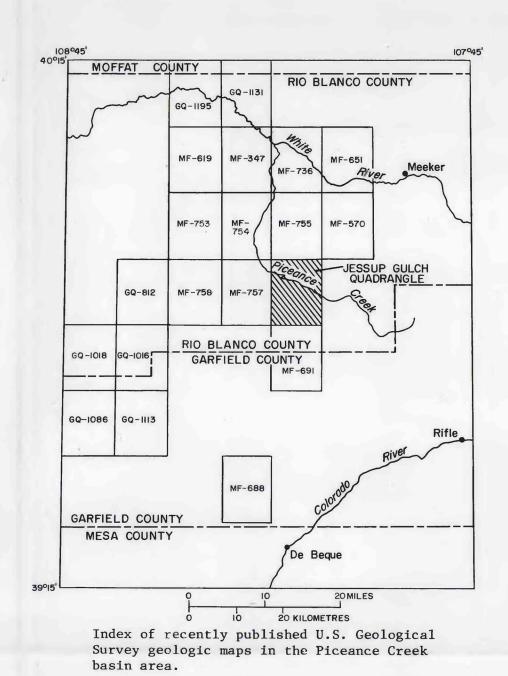
GREEN RIVER FORMATION (EOCENE) Black Sulphur Tongue--Gray and light-brown silty calcareous marlstone weathering to a white slope. The unit thickens northeastward within the map area. The tongue merges with the main body of the Green River Formation east of the map area in the No Name Ridge quadrangle. Thickness 30-60 ft (9-18 m)

The top of the Black Sulphur Tongue is mapped as a line labeled Tgb. The Black Sulphur Tongue itself is mapped with the underlying Uinta Formation Tu₅

Tgt Thirteenmile Creek Tongue--Gray and tan marlstone containing 3-4 thin oil-shale beds in the upper part. The lower half of the unit is silty at most places, and in some places contains a few thin sandstone beds. The Thirteenmile Creek Tongue merges with the main body of the Green River Formation in the subsurface of the southern part of the quadrangle. Thickness 75-100 ft (23-30 m)

CONTACT--Dashed where approximately located - FAULT--Dashed where inferred; dotted where concealed. U, upthrown side; D, downthrown side STRUCTURE CONTOURS--Drawn on top of the Mahogany oil-shale zone of the Green River Formation. Omitted in graben fault areas where displacement was not determined. Contour interval 100 ft (30.5 m)

DRILL HOLE--Number keyed to table



LIST OF DRILL HOLES

on co	USGS			n		Depth of hole	
	core – no.* S	Sec.	T. S.	R. W.	Operator and name of well	feet	metres
1		16	2	96	General Petroleum Corp. 36-16-G	2,450	746.8
2		19	2	96	Mobil Oil Co. T52-19-G	19,710	6,007.6
3		19	2	96	Mobil Oil Co. F13-19-G	3,050	929.6
4		20	2	96	Mobil Oil Co. T44-20-G	5,900	1,798.3
5		- 21	2	96	Mobil Oil Co. T25-21-G	5,390	1,642.9
6		22	2	96	Mobil Oil Co. F11-22-G	3,480	1,060.7
7		26	2	96	General Petroleum Corp. 24X-26-G	3,348	1,020.5
8		27	2	96	Mobil Oil Co. 12-27-G	6,344	1,933.7
9		29	2	96	Mobil Oil CoGeneral Petroleum Corp. 71X-29-G	3,005	915.9
10		24	2	97	Mobil Oil Co. 43-24-G	5,515	1,681.0
11		35	2	97	Pan-American Oil Co. 1 Shanahan	2,448	746.2
12		36	2	97	Huber CorpPan-American Oil Co. 36-1 Fed. Morrison	8,180	2,493.3
13	C-220	5	3	96	TOSCO CB-3	2,104	641.3
14	C-219	6	3	96	TOSCO CB-2	1,482	451.7
15	C-162	10	3	96	Equity Oil Co. 3 Oldland	2,395	730.0
16		10	3	96	Equity Oil Co. 8 Piceance Creek	3,107	947.0
17	C-175	10	3	96	Atlantic-Richfield Oil Co. 2-B Federal	3,100	945.0
18		11	3	96	Equity Oil Co. 1 Oldland	2,461	750.1
19	C-221	17	3	96	TOSCO CB-4	1,470	448.1
20	C-176	21	3	96	TOSCO TG-2-1	2,325	708.7
21		23	3	96	Equity Oil Co. 7 So. Piceance Creek	3,024	921.7
22	C-178	23	3	96	TOSCO TG-2-3A Federal	1,131	344.7
23		26	3	96	Equity Oil Co. 2 Oldland	3,008	916.8
24	C-218	1	3	97	TOSCO CB-1	2,104	641.3

*U.S. Geological Survey computer storage and retrieval program for oil-shale data, corehole identification number.

1 KILOMETRE

COLORADO

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET DATUM IS MEAN SEA LEVEL

1 ,5 0